

Enterprise Standards and Approved Products

March, 2009

3000 Network Domain

Category	Enterprise Standard (Web Site Links are located at end of document)	Product(s) (Web Site Links are located at end of document)	Effective Date
3100 Cable Plant	Category 6, unshielded twisted pair (UTP) copper cable up to a maximum of 295-feet; OR 8.3/125 micron single mode fiber cable; OR 50/125 micron multimode fiber optic cable LC connectors	Systimax products with Corning fiber: <ul style="list-style-type: none">▪ Category 6, unshielded twisted pair (UTP) copper cable;▪ OR 8.3/125 Single mode fiber cable;▪ OR 50/125 Multimode fiber optic cable.	Revision date: December 1, 2008 Effective date: July 1, 1997

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3110 Cable Plant Installation	<p>Cable plant installation based on current industry standards. The following are applicable:</p> <ul style="list-style-type: none"> • TIA/EIA-568-B.1-7 Commercial Building Telecommunications Wiring Standard and its appendix and all addendums • TIA/EIA-568-B.2-11 Commercial Building Telecommunications Wiring Standard and its appendix and all addendums • TIA/EIA-569-B Commercial Building Standard for Telecommunications Pathways and Spaces • TIA/EIA-570-B Residential and Light Commercial Telecommunications Wiring Standard • TIA/EIA-606 Administrative Standard for the Telecommunications Infrastructure of Commercial Building • J-STD-607-A Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications • TIA/EIA-758-A Customer Owned Outside Plant Telecommunications Infrastructure Standard • TIA/EIA-526-7 Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant • TIA-EIA-526-14-A Optical Power Loss Measurements of Install Multimode fiber Cable Plant • TIA/EIA-568-3-3.1 Optical Fiber Cabling Components Standard • TIA/EIA-598-C Optical fiber Cable Color Code • TIA-758-A Customer Owned Outside Plant Telecommunications Infrastructure • National Electric Code • National Electric Safety Code • ASTM E814 Fire Stopping • ISO/IEC 11801: 2002/AMD 1 • TSB 162 Telecommunications Cabling Guidelines for Wireless Access Points • TIA-942 Telecommunications Infrastructure Standard for Data Centers • IEEE 802.3 Ethernet • IEEE 802.11 b/g/n WLAN • IEEE 802.16 WiMax • TIA-1003 Requirements for a Wireless LAN Based IP Telephony Endpoint 	None.	<p>Review date: December 1, 2008</p> <p>Effective date: July 1, 1997</p>
3200 Network Protocols	<p>TCP/IP - the only protocol supported by the Commonwealth Office of Technology after December 31, 1998. For details, see the Agency Contact Memo at Agency Contact Memo 9707-01. Ethernet - LAN topology</p>	None.	<p>Revision date: December 1, 2008</p> <p>Effective date: July 1, 1997</p>

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3300 Network Hardware Components: Routers, Hubs, Remote Access, CSU/DSU, NICS, Modems	<ul style="list-style-type: none"> ▪ SNMP compliant ▪ Modems: 56 Kbps v.92, International Telecommunications Union (ITU) data transmission standard ▪ Ethernet NIC cards at 100/1000 Mbps ▪ Wireless LAN installations must adhere to Enterprise IT Policy CIO-078 (Wireless LAN Policy). 	Routers/Switches: <ul style="list-style-type: none"> ▪ Nortel Networks CSU/DSU's: <ul style="list-style-type: none"> ▪ General DataComm ▪ Nortel Networks Wireless Data Networking: <ul style="list-style-type: none"> ▪ Nortel Networks Virtual Private Networks: <ul style="list-style-type: none"> ▪ Nortel Networks ▪ NetMotion Modems: <ul style="list-style-type: none"> ▪ 56 Kbps V.92 USRobotics (formerly 3Com) 	Revision date: December 1, 2008 Effective date: July 1, 1997
3450 Desktop Video Conferencing	<ul style="list-style-type: none"> ▪ G.711, G.722, G.728, H.221, H.261, H.263 ▪ T.120 standard for data collaboration ▪ Video Decoding: up to 30 fps (frames per second) ▪ Video Encoding: up to 22 fps ▪ Interfaces: ISDN or IP (H.323 or SIP) 	<ul style="list-style-type: none"> ▪ Polycom (ViaVideo) 	Revision date: December 1, 2008 Effective date: July 1, 1997
3505 Network Services – Electronic Commerce and Payments	eMARS ePay (via the Link-to-Gov contract) is the approved enterprise electronic commerce facility for credit card payments via the internet. This full service facility includes account creation, merchant bank services, secure transactions, processing of credit card payments, authorization and settlement. Agency Contact Memo 9903-03 describes the pilot, contract and the e-commerce workflow.	All approved web browser products (Category 3511, below) support SSL encryption	Review date: December 1, 2008 Effective date: June 1, 1999
3510 Network Services – Internet/ Intranet Web Server	World Wide Web Consortium (W3C) standards	<ul style="list-style-type: none"> ▪ Microsoft Internet Information Server (version 6 or later) ▪ WebSphere Web Server (both z/OS and UNIX) ▪ Apache Tomcat 	Revision date: March 20, 2009 Effective date: July 1, 1997
3511 Network – Internet/ Intranet - Web Browser	World Wide Web Consortium (W3C) standards	<ul style="list-style-type: none"> ▪ Microsoft Internet Explorer 6 ▪ Mozilla Firefox ▪ Microsoft Internet Explorer 7 Enterprise applications have been verified IE7 compliant. Agencies are advised to verify their own applications and tools sets work with IE7 before recommending an upgrade for their staff". For maximum security, and to take advantage of advanced client software and web site functions and features, the latest browser release should be installed and used where feasible.	Revision date: March 20, 2009 Effective date: July 1, 1997

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3520 Network Services – Mainframe Access	SEE 3270 Emulation Software	<ul style="list-style-type: none"> ▪ Attachmate 3270 Emulation ▪ DOS and Windows workstations - Attachmate 3270 Emulation ▪ Mainframe File Transfer – Attachmate ▪ IBM WebSphere Host On-Demand ▪ IBM Personal Communications 	Revision date: December 1, 2008 Effective date: July 1, 1997
3550 Network Services – Storage Area Networks		<ul style="list-style-type: none"> ▪ EMC ▪ IBM ▪ HP 	Revision date: December 1, 2008 Effective date: Dec. 20, 1999
3600 Network Management	Simple Network Management Protocol – SNMP (Version 2 and above)	For UNIX and Windows: <ul style="list-style-type: none"> ▪ HP OpenView Network Management System ▪ Microsoft System Center Operations Manager (SCOM) ▪ BMC Patrol ▪ BMC Service Impact Manager ▪ Nortel Enterprise Network Management System (ENMS) ▪ IPSWITCH – What's Up Gold 	Revision date: December 1, 2008 Effective date: July 1, 1997
3650 Content Delivery Network	Support forward and reverse proxy of the following IP protocols: <ul style="list-style-type: none"> ▪ HTTP ▪ FTP over HTTP ▪ FTP over TCP ▪ FTPS (for mainframe file transfer) ▪ HTTPS (secure transport) ▪ NNTP ▪ MMS ▪ TSPard ▪ ICAP Support for a variety of streaming media formats including MMS (Microsoft Windows Media) and RTSP (RealNetworks Media streaming) Authentication using Active Directory Flexibility that offers server-based or appliance solutions	<ul style="list-style-type: none"> ▪ Network Appliance ▪ Microsoft Internet Security and Acceleration (ISA) Server – replaces Microsoft Proxy Server. A software-based solution that runs on approved Microsoft server OS platforms only. 	Revision date: December 1, 2008 Effective date: October 1, 2003

Web Site Links:

External Links: Some of the following links resolve to non-governmental agencies. The information on these pages is not controlled by COT or the Commonwealth of KY.

Category:	Link:	URL:
3200	Agency Contact Memo 9707-01	http://gotsource.ky.gov/docushare/dsweb/Get/Document-7298/970701.DOC
3505	Agency Contact Memo 9903-03	http://gotsource.ky.gov/docushare/dsweb/Get/Document-7342/990303.doc
3510	Apache Tomcat	http://tomcat.apache.org/
3520	Attachmate	http://www.attachmate.com/
3600	BMC Patrol	http://www.bmc.com/products/proddocview/0,2832,19052_19429_26259_8475,00.html
3600	BMC Service Impact Manager	http://www.bmc.com/products/proddocview/0,2832,19052_19429_10279231_9938,00.html
3550	EMC	http://www.emc.com/?fromGlobalSiteSelect
3300	Enterprise IT Policy CIO-078	http://gotsource.ky.gov/docushare/dsweb/Get/Document-21536/CIO-078 -- Wireless LAN Policy.doc
3300	General DataComm	http://www.gdc.com/
3550	HP	http://www.hp.com/#Product
3600	HP OpenView Network Management System	https://h10078.www1.hp.com/cda/hpms/display/main/hpms_content.jsp?zn=bto&cp=1-10%5e36657_4000_100
3550	IBM	http://www.ibm.com/us/en/
3520	IBM Personal Communications	http://www-01.ibm.com/software/network/pcomm/
3520	IBM WebSphere Host On-Demand	http://www-01.ibm.com/software/web servers/hostondemand/
3300	International Telecommunications Union (ITU)	http://www.itu.int/net/home/index.aspx
3600	IPSWITCH – What’s Up Gold	http://www.whatsupgold.com/?k_id=IP_Home
3511	Microsoft Internet Explorer 6	http://www.microsoft.com/windows/ie/ie6/default.mspx
3511	Microsoft Internet Explorer 7	http://www.microsoft.com/windows/products/winfamily/ie/default.mspx
3510	Microsoft Internet Information Server	http://support.microsoft.com/ph/2097
3650	Microsoft Internet Security and Acceleration (ISA) Server	http://www.microsoft.com/forefront/edgesecurity/isaserver/en/us/default.aspx
3600	Microsoft System Center Operations Manager (SCOM)	http://www.microsoft.com/systemcenter/operationsmanager/en/us/default.aspx
3511	Mozilla Firefox	http://www.mozilla.com/en-US/firefox/firefox.html
3300	NetMotion	http://www.netmotionwireless.com/
3650	Network Appliance	http://www.netapp.com/us/
3600	Nortel Enterprise Network Management System (ENMS)	http://products.nortel.com/go/product_content.jsp?parId=0&segId=0&catId=E&prod_id=25520&locale=en-US
3300	Nortel Networks	http://www.nortel.com/

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3450	Polycom	http://www.polycom.com/products/
3100	Systimax	http://www.commscope.com/systimax/enq/product/cabling_solutions/patching/1173216_9477.html
3300	USRobotics	http://www.usr.com/support/s-main-menu.asp
3510	WebSphere Web Server	http://www-01.ibm.com/software/websphere/
3510, 3511	World Wide Web Consortium (W3C) standards	http://www.w3.org/